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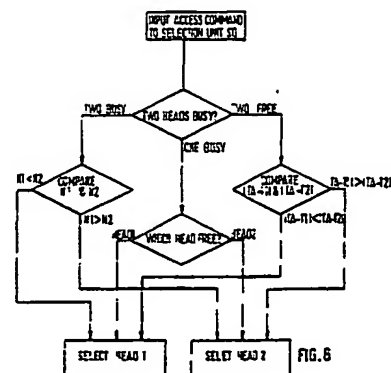
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94 Super-large capacity data storage drive.

57 A fast access high capacity data storage system includes a disk-based storage system employing a plurality of storage surfaces (2). Selected storage surfaces of the plurality thereof include a plurality of data access heads (4) in data communication therewith. Means (6) is provided for allowing concurrent data transfers through this plurality of data access heads (4). Performance is further improved by monitoring frequently accessed data records and transferring them to recording surfaces less frequently in use. Means (48, 49) is also taught for moving the data access heads (4) of the plurality to other recording surfaces (2) to decrease access bottle-necks thereon.

10 NUMBER OF STANDBY CHANNELS OF HEAD 1
 11 NUMBER OF STANDBY CHANNELS OF HEAD 2
 12 NUMBER OF STANDBY CHANNELS
 13 TRACK NUMBER OF HEAD 1
 14 TRACK NUMBER OF HEAD 2



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL.5)
X	WO-A-8504510 (STEFAN DE FAY) * page 10, lines 3 - 24; figure 3 * * page 9, lines 5 - 9 *	1, 2	G06F3/06 G11B27/00 G11B27/10 G11B5/012
A	* page 9, lines 24 - 27; claim 1 *	3, 10, 16	
X	DE-A-3318279 (ERIK NOTTHOF) * claim 1; figures 1b, 2, 3 *	1, 2, 4	
A		3, 10, 16	
A	US-A-4270154 (JOHN E. CRAWFORD) * column 2, line 45 - column 3, line 53; claims 1, 5; figure 1 *	1-4, 10, 11, 16	
A	IBM Technical Disclosure Bulletin vol. 21, no. 9, February 1979, pages 3801 - 3802; J.M. Gibbard et al.: "Stored Document Access Time" * page 3801, line 29 - page 3802, line 13 *	3, 10, 16	
A	Proceedings of the 8th IFIP Conference on Optimization Techniques September 1977, Würzburg, Germany pages 473 - 483; H. Kondo et al.: "Effective File Allocation Method onto Disc Devices" * abstract * * page 473, line 45 - page 480, line 11; figures 1-7 *	3, 10, 16	TECHNICAL FIELDS SEARCHED (Int. CL.5) G11B27/00 G06F3/00 G11B5/00 G11B17/00 G11B19/00 G06F9/00
A, P	PATENT ABSTRACTS OF JAPAN vol. 12, no. 350 (P-760)(3197) 20 September 1988, & JP63 104201 (MITSUBISHI ELECTRIC CORP) 09 May 1988, * the whole document *	3, 10, 16	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 19 JUNE 1990	Examiner CHAUMERON, B
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			